

Message Text

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C O N F I D E N T I A L SECTION 1 OF 3 USNATO 1619

E. O. 11652: GDS, 12-31-79

TAGS: ETEL, OCON, MARR, TSPA, US, XG

SUBJECT: REPORT OF NATO JOINT COMMUNICATIONS- ELECTRONICS
COMMITTEE (NJCEC) MEETING, 27-28 MARCH 1973

REFS: A. AC/270- A/12 E. AC/270- D/105
 B. STATE 52993 F. NICSMA- DXWP
 C. NICSMA- D/23 G. NAC 2767 (NOTAL)
 D. AC/270- D/104 H. NICSMA- D/21

1. SUMMARY. NJCEC RECOGNIZED THAT POSSIBILITY OF USING
DIGITAL COMMUNICATIONS IN NATO WAS CLOSER THAN PREVIOUSLY
FORESEEN. ACCORDINGLY, COMMITTEE REQUESTED THAT ENGINEERING
DESIGN OF FIRST NICS CONFIGURATION INCLUDE, WHERE POSSIBLE,
PROVISIONS FOR DIGITAL WIDE- BAND, AS WELL AS ANALOG NARROW- BAND,
OPERATION. DG NICSMA (BUCHS) WAS INSTRUCTED THAT THIS
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POTENTIAL SIGNIFICANT CHANGE TO ENGINEERING DESIGN OF NICS
MUST NOT INTRODUCE ADDITIONAL DELAYS IN IMPLEMENTATION

OF PROGRAM. COMMITTEE DIRECTED JCEWG TO STUDY POLICY IMPLICATIONS OF NATIONAL USE OF NATO COMMUNICATIONS AND TO SUBMIT AN INTERIM REPORT FOR CONSIDERATION AT JULY NJCEC PLENARY. IN ORDER TO BRING DPC UP TO DATE ON CURRENT STATUS OF MAJOR NICS PROJECTS, SECTIONS VII, VIII, AND IX OF DG ANNUAL REPORT TO NICS POLICY COMMITTEE (REF C) WILL BE APPENDED TO DPC REPORT. COMMENTS ON EACH AGENDA ITEM (REF A) FOLLOW. END SUMMARY.

2. NATO SATCOM PROGRAM, PHASE II. BUCHS REPORTED THAT MAGNAVOX OF US HAD RECEIVED CONTRACT AWARD FOR PROVIDING NATO WITH SPREAD SPECTRUM MULTIPLE ACCESS EQUIPMENT. UNITS WILL START BECOMING AVAILABLE IN ABOUT A YEAR' S TIME AND SCHEDULE CALLS FOR ALL EQUIPMENTS TO BE OPERATIONAL WITHIN APPROXIMATELY 18 MONTHS. DG NICSMA REPORTED THAT CUTOVER TO US DSCS II ATLANTIC SATELLITE WAS COMPLETED ON FEB 19 AND NATO SYSTEM IS OPERATING SATISFACTORILY. NATO PHASE II SATELLITE REMAINS ON STATION READY TO BE REACTIVATED IF NEEDED. COMMENT: SINCE US OBJECTED TO THE PRESS RELEASE PROPOSED BY CHAIRMAN (VAN DER WILLIGEN) OF SATCOM CONTINGENCY PLANNING GROUP (SCCPG) IN NAC 2740, ISSUE WAS NOT RAISED DURING DISCUSSION THIS ITEM. VAN DER WILLIGEN HOPES TO DEVELOP SET OF ANSWERS, IN CONJUNCTION WITH SCCPG REPS, WHICH WILL BE AVAILABLE IF SHAPE, US OR UK ARE QUESTIONED BY PRESS. END COMMENT.

IN EVENT THAT SATELLITE CHANNEL CAPACITY BECOMES LIMITED, COMMITTEE INVITED SHAPE TO USE CONSOLIDATED LIST OF CIRCUIT RESTORATION PRIORITIES AGREED BY NATO MILITARY AND POLITICAL AUTHORITIES. NJCEC NOTED WITH SATISFACTION THAT SHAPE HAD REACHED AGREEMENT WITH ALL NATIONS ON ACE DIRECTIVE COVERING OPERATION AND MAINTENANCE OF SATCOM PHASE II GROUND TERMINALS.

3. SATELLITE CONTINGENCY PLANNING. NJCEC FORMALLY ENDORSED MEMORANDUM OF UNDERSTANDING ON NATO/ UK USE OF US SATELLITE AND US USE OF NATO/ UK SATCOM GROUND TERMINALS. SUBJECT TO FOLLOWING AMENDMENTS, COMMITTEE APPROVED TOR FOR SCCPG AS SET OUT IN ANNEX 2 TO AC/270- D/104 FOR PERIOD OF ONE YEAR:

PARA 1, LINE 6 - DELETE " PARTICULAR"
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PARA 2(C) TO READ AS FOLLOWS: " IN THE DEVELOPMENT OF THESE PLANS THE APPROPRIATE NATO ORGANIZATIONS SHOULD BE CONSULTED WITH REGARD TO THE ASSOCIATED OPERATIONAL ASPECTS ..."

PARA 2(D), LINE 2 - ADD " NATO" AFTER " AFFECT"

PARA 2(E), LAST LINE TO READ AS FOLLOWS: "... ENHANCE COMMUNICATION BETWEEN NATO AND NATIONAL SATELLITE SYSTEMS;"

PARA 3(C) TO READ: " REPRESENTATIVES AND ADVISORS FROM NATO

ORGANIZATIONS..."

NJCEC AGREED WITH PROPOSED SCCPG WORK PROGRAMME (PARA 9, REF D). CHAIRMAN (MACBRIEN) RAISED ISSUE OF POSSIBLE NATIONAL MARITIME REQUIREMENT FOR NORMAL DAY- TO- DAY USE OF SPACE SEGMENT AND SUGGESTED THAT SCCPG BE GIVEN TASK OF STUDYING ISSUE. ALTHOUGH SEVERAL NATIONS FELT THAT SCCPG HAD REQUIRED EXPERTISE TO PERFORM THIS TASK, US REP (DR. RECHTIN) SAID SCCPG WAS OF WRONG COMPOSITION TO CONDUCT STUDY. HE POINTED OUT THAT OTHER NATIONS HAVING MARITIME FORCES MIGHT ALSO WANT TO USE NATO SATELLITE FACILITIES FOR COMMUNICATIONS PURPOSES AND SHOULD THEREFORE BE ALLOWED TO TAKE PART IN ANY GROUP SET UP TO CONSIDER THIS ISSUE. US REP RECOMMENDED, AND NJCEC AGREED, THAT GROUP BE SET UP UNDER CHAIRMANSHIP OF NICSMA TO DEVELOP NECESSARY TECHNICAL SPECIFICATIONS WHICH WOULD ALLOW NATIONAL SHIP- BORNE TERMINALS TO USE NATO SATCOM SYSTEM. BUCHS WAS ALSO REQUESTED TO DEVELOP OPERATIONAL PROCEDURES NECESSARY TO PERMIT NATIONALLY EQUIPPED MARITIME FORCES ASSIGNED TO NATO, TO USE NATO AND AVAILABLE NATIONA

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4. DIGITALIZATION OF NATO COMMUNICATIONS NETWORKS. COMMITTEE GUIDANCE TO BUCHS ON POSSIBILITY OF PROVIDING EARLIER CAPABILITY FOR PASSING DIGITAL TRAFFIC CAN REQUIRE SIGNIFICANT CHANGES TO NICS SYSTEM ENGINEERING DESIGN. IN OPENING DISCUSSION THIS ITEM, DEPUTY DG (GEN LOTZ) REPORTED NICSMA SUPPORTED MACBRIEN' S

PAPER ON DIGITALIZATION IN NATO'S COMMUNICATIONS NETWORKS AND ITS CONCLUSIONS (REF E). HE POINTED OUT THAT NICSMA MUST FACT UP TO NEEDS OF FUTURE AND SUGGESTED POSSIBILITY OF USING DIGITAL COMMUNICATIONS IN NATO SATCOM PHASE III SYSTEM. LOTZ ADDED THAT NICSMA GROUP NOW REVIEWING INDUSTRIAL CAPABILITY TO BUILD SOPHISTICATED CIRCUIT SWITCHES (NODES), WILL STUDY IN DETAIL FEASIBILITY OF HUBRID (DIGITAL/ ANALOG) OPERATION. DEPUTY DG ALSO NOTED URGENT NEED FOR LONG RANGE CRYPTOGRAPHIC SECURITY PLANNING FOR NICS. HE CONCLUDED BY SAYING THAT STUDY TO PROVIDE NATO WITH AN INITIAL DIGITAL COMMUNICATION CAPABILITY WILL NOT SLOW ONGOING IMPROVEMENT OF NATO COMMUNICATIONS.

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RECHTIN SUGGESTED THAT CONCLUSIONS OF REF E BE MODIFIED TO INCLUDE STUDY OF INTEROPERABILITY OF NICS WITH MILITARY LONG HAUL TACTICAL AND PTT DIGITAL NETWORKS. HE ARGUED THAT NICS DESIGN OF ITS FIRST CONFIGURATION SHOULD NOT PRECLUDE DIGITAL COMMUNICATIONS, THAT BOTH NODES AND TARES BE SO DESIGNED THAT EARLY DIGITAL OPERATION CAN BE ACCOMMODATED, THAT SCHEDULED IMPROVEMENTS FOR NATO COMMUNICATIONS SHOULD NOT BE DELAYED BECAUSE OF THIS DESIGN CONSIDERATION, AND THAT DEGREE OF DIGITAL CAPABILITY BE PERMISSIVE TO NICSMA WHO WOULD RECOMMEND PROGRAM FOR NJCEC CONSIDERATION. SEVERAL NATIONS AND MNCS EXPRESSED FEAR THAT REQUIREMENT FOR INCLUSION OF DIGITAL COMMUNICATIONS CAPABILITY, AT OUTSET, COULD DELAY NATO'S URGENT NEEDS FOR IMPROVED COMMUNICATIONS. OTHER NATIONS (ITALY, NETHERLANDS, FRG) SUPPORTED US APPROACH, NOTING LOTZ' S COMMENT THAT IMPLEMENTATION OF NICS PROJECTS WOULD NOT BE SLOWED. COMMITTEE INSTRUCTED DG NICSMA TO INVESTIGATE AND EVALUATE POSSIBLE NATO USAGE OF DIGITAL COMMUNICATIONS IN NEXT 5 TO 15 YEARS AND TO ESTABLISH AN AD HOC WORKING GROUP TO DETERMINE TECHNICAL POSSIBILITIES OF NICS USING OR INTERCONNECTING WITH NATIONAL PTT AND MILITARY STRATEGIC AND TACTICAL SYSTEMS IN A DIGITAL ENVIRONMENT.

5. STATUS REPORTS ON NICS.

A. SATCOM PHASE III. SAMSO REP REPORTED THAT CONTRACT FOR SPACE SEGMENT NATO SATCOM PHASE III WAS AWARDED TO WESTERN DEVELOPMENT LABORATORY, PHILCO- FORD ON 4 MARCH AND THAT LAUNCH OF FIRST SATELLITE WAS PROJECTED FOR AUGUST 1975.

B. TARE: IN HIS BRIEF ON TARE, NICSMA REP SAID THAT COMPLETION OF BID SPECIFICATIONS WAS EXPECTED SEP 73. HOWEVER, LACK OF AGREEMENT ON MESSAGE RELAY PROCEDURES FOR AUTOMATED COMMUNICATIONS SYSTEMS COULD DELAY COMPLETION OF BIDDING DOCUMENTS. COMMENT: ALTHOUGH ALL NATIONS HAD APPARENTLY AGREED TO PROCEDURES LAST YEAR, US SUBSEQUENTLY NON- CONCURRED. SUGGESTT WASHINGTON MAKE EVERY EFFORT TO REACH AGREEMENT ON THIS KEY ISSUE SO THAT INVITATION FOR BID (IFB) FOR CRITICALLY NEEDED TARES WILL NOT BE DELAYED. END COMMENT.

C. SECURE VOICE: NICSMA PROJECT OFFICER BRIEFED COMMITTEE ON PLAN FOR PILOT SECURE VOICE PROJECT (REF F). RECHTIN POINTED OUT EXPENSIVE COST ASSOCIATED WITH PROCUREMENT OF ANALOG
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SECURE VOICE EQUIPMENTS (APPROXIMATELY \$75,000 EACH), AND NOTED THAT CRYPTOGRAPHIC EQUIPMENT USED IN A WIDE- BAND DIGITAL ENVIRONMENT COULD COST ONLY ONE- FIFTH TO ONE- TENTH AS MUCH. NJCEC AGREED THAT PLANS FOR EXTENSION OF SECURE VOICE PROJECT BEYOND INITIAL BUY OF 250 EQUIPMENTS SHOULD AWAIT RESULTS OF DIGITALIZATION STUDIES BEING UNDERTAKEN BY NICSMA (PARA 4 ABOVE).

D. CIP-67: IN HIS CIP-67 STATUS REPORT, NICSMA PROJECT OFFICER SAID THAT COST OF PROJECT IS ESTIMATED AT 14 M IAU WHILE ONLY 7.6 M REMAIN IN PROGRAM. HE REPORTED THAT ADDITIONAL COSTS ARE ASSOCIATED WITH INCREASED NUMBER OF STATIONS, INCREASED QUANTITY OF MULTIPLEX EQUIPMENT AND REQUIREMENT TO HARDEN 36 STATIONS. NJCEC REQUESTED DG IN CONSULTATION WITH SHAPE AND FRG (HOST NATION) TO REPORT AT NEXT NJCEC MEETING ON RATIONALIZATION OF SCOPE AND COST OF PROJECT AND TO PROVIDE ALTERNATIVES FOR COMMITTEE CONSIDERATION.

E. ACE HIGH: NICSMA PROJECT OFFICER POINTED OUT POTENTIAL PROBLEM ON FUTURE FUNDING OF PROJECT SINCE ACE HIGH HAS BEEN FUNDED ON 15- NATION BASIS WHILE NICS IS FUNDED ON 14- NATION BASIS.

F. SATCOM III GROUND TERMINALS: SPECIFICATIONS FOR SATCOM PHASE III GROUND TERMINALS ARE BEING READIED. MAJOR DIFFERENCES BETWEEN PHASE II AND PHASE III GROUND TERMINALS ARE: INCREASED CHANNEL CAPACITY (3 TO 4 TIMES AT EACH STATION); 200 MHZ RADIO FREQUENCY BANDWIDTH AS AGAINST 50 MHZ BANDWIDTH FOR EXISTING SYSTEM; PRESENT COMPLEX ANTENNA TRACKING WILL BE SIMPLIFIED AND LESS COSTLY. NJCEC DID NOT AGREE TO AN EXTENSION OF EXISTING PHASE II CONTRACT AS REQUESTED BY NICSMA. RECHTIN POINTED OUT THAT, ACCORDING TO NICSMA BRIEFER, THERE WILL BE SIGNIFICANT DIFFERENCES IN PHASE III GROUND TERMINALS AND ACCORDINGLY, THERE IS NO JUSTIFICATION FOR SOLE SOURCE PROCUREMENT. HE COMMENDED NICSMA FOR PREPARING ALTERNATIVE PROPOSAL (REF G) AND SUGGESTED THAT NJCEC CONSIDER PROCUREMENT OF ADDITIONAL PORTABLE TERMINALS IN LIEU OF STATIC TERMINALS. BASED ON US COMMENT, COMMITTEE INVITED DG NICSMA TO PREPARE DETAILED STUDY TO INCLUDE PROS AND CONS OF CHANGING RATIO BETWEEN STATIC AND TRANSPORTABLE GROUND TERMINALS.

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6. IMPLEMENTATION CONCEPT. NJCEC AGREED THAT TITLE OF NICSMA- D/24 BE CHANGED FROM " IMPLEMENTATION PHILOSOPHY" TO " IMPLEMENTATION CONCEPT". BUCHS REPORTED THAT CURRENT PAPER WAS PRELIMINARY IN NATURE, THAT IMPLEMENTATION PROJECT SCHEDULES WOULD BE ACCELERATED WHENEVER POSSIBLE AND THAT HE WOULD PROVIDE THE COMMITTEE WITH A DETAILED PLAN FOR CONFIGURATION " A" AND AN ASSOCIATED IMPLEMENTATION PLAN AT NOV MEETING OF COMMITTEE.

7. FUNDING FORECAST FOR NEXT COMMON INFRASTRUCTURE PERIOD. COMMITTEE NOTED NICS FUNDING FORECAST PREPARED BY NICSMA FOR 1975-79 COST SHARING PERIOD (REF H) AND NOTED THAT NICSMA HAD PROGRAMMED REQUIREMENTS ACCORDING TO DATES ON WHICH ANTICIPATED CONTRACT AWARD WOULD BE MADE.

8. PRODUCTION SHARING ARRANGEMENT FOR NICS. BUCHS REPORTED CONFIDENTIAL

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THAT INFRASTRUCTURE COMMITTEE HAD RESOLVED NEARLY ALL ISSUES ON PRODUCTION SHARING ARRANGEMENTS FOR NICS. ONLY OUTSTANDING ISSUE IS WHETHER TO INCLUDE OR EXCLUDE CERTAIN ADMINISTRATIVE COSTS FROM PRODUCTION SHARING DG REPORTED THAT TO DATE, TWO NICS CONTRACTS HAD BEEN AWARDED, BOTH WITH A US PRIME

CONTRACTOR; ONE CONTRACT WAS AWARDED TO MAGNAVOX FOR SSMA EQUIPMENT, THE OTHER TO PHILCO- FORD FOR THE SPACE SEGMENT OF SATCOM PHASE III.

9. REPORT TO DEFENSE PLANNING COMMITTEE (DPC). REPORT TO DPC WILL NOTE DEVELOPMENT OF SATCOM CONTINGENCY PLAN PROVIDING FOR USE OF US DSCS ATLANTIC SATELLITE AND WILL CONTAIN SUBSTANCE OF SECTIONS VII, VIII, AND IX OF DG ANNUAL REPORT TO ITS POLICY COMMITTEE (REF C). COMMENT: NOTE THAT SECTION IX OF ANNUAL REPORT INCLUDES NICSMA PROPOSED WORK PROGRAMME. POLICY COMMITTEE IS REQUIRED, BY TERMS OF ITS CHARTER, TO SUBMIT AN ANNUAL WORK PROGRAM TO DPC. END COMMENT.

10. NATIONAL USE OF NATO COMMUNICATIONS. US REP OPENED DISCUSSION THIS ISSUE BY NOTING THAT US DCS AND NICS WOULD HAVE ROUGHLY COMPARABLE CAPABILITY IN MUCH OF NATO EUROPE. HE SAID WHERE NATO AND NATIONS CAN MAKE APPROPRIATE ARRANGEMENTS FOR EXCHANGE OF RESOURCES, IT WOULD USUALLY BE FOUND THAT RELIABILITY, SURVIVABILITY AND FLEXIBILITY OF COMMUNICATIONS WOULD BE STRENGTHENED. RECHTIN ADDED THAT WHEN MUTUAL EXCHANGE OF RESOURCES NOT FEASIBLE, OTHER QUID PRO QUO ARRANGEMENTS SUCH AS FINANCIAL REIMBURSEMENT, WOULD BE REQUIRED. US DISTRIBUTED POSITION STATEMENT INCLUDED IN GUIDANCE CABLE (REF B) FOR RECORD. CANADIAN REP REPORTED THAT CANADIAN REQUEST FOR TELEGRAPH CHANNEL IN NATO SATCOM BASED ON SPARE CAPACITY BEING AVAILABLE, WOULD BE USED AS ALTERNATE MEANS OF COMMUNICATIONS, AND CANADA REALIZED THAT FINANCIAL REIMBURSEMENT FOR USE OF SATELLITE CAPACITY MIGHT BE REQUIRED. COMMITTEE REQUESTED THE JCEWG TO STUDY ISSUE, WITH OBJECTIVE OF RECOMMENDING POLICY OF RCONSIDERATION BY NJCEC AT JULY 73 PLENARY.

11. ANYHOTHER BUSINESS:

A. NO- BREAK POWER. NJCEC CONFIRMED THAT FROM OPERATIONAL AND TECHNICAL POINT OF VIEW, ALL TARES, INCLUDING ONE LOCATED BRUSSELS HQ, SHOULD BE FULLY PROTECTED BY AN ADEQUATE NO- BREAK POWER SUPPLY.
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B. OPERATIONAL DIRECTION AND MANAGEMENT CONTROL OF NICS. SINCE NATIONS OBJECTED TO SUBMITTING COMMENTS ON NICSMA DRAFT PAPER ON CONCEPT FOR OPERATIONAL DIRECTION AND MANAGEMENT CONTROL FOR NICS (NICSMA/ HB(73)25) PRIOR TO RECEIPT OF MNC COMMENTS (DUE MAY 31), DEADLINE FOR NATIONAL COMMENTS WILL BE DELAYED UNTIL AFTER NEXT NJCEC PLENARY. DG WILL SUBMIT PROGRESS REPORT AT NJCEC MEETING SCHEDULED TO BE HELD 17-18 JULY 1973.
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